

Notice of Allowability

Application No.

09/905,716

Examiner

Lawrence B. Williams

Applicant(s)

HARRIS, FREDRIC JOEL

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 28 August 2006.
2. ☒ The allowed claim(s) is/are 9 and 10, renumbered as 1, 2 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Brown on 11 September 2006.

The application has been amended as follows:

- a.) In claim 9, line 9, delete the word "step" and replace with "tasks".
- b.) In lines 11, 12, and 15, replace the word "bandwith" with "bandwidth".
- c.) In line 15, delete "[of each]".
- d.) In claim 10, line 2, replace the word "Efficiently" with "efficiently".
- e.) In claim 10, line 12, replace the word "bandwith" with "bandwidth".

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: The instant application discloses a receiver for receiving and separating a composite 3-G wireless communications signal into constituent baseband components. A search of prior art fails to disclose or suggest alone or in combination a receiver for receiving and separating a composite 3-G wireless communications signal into constituent baseband components "wherein said receiver combines multiple processing tasks of a 3-G receiver into a single device, said device performs the processing required for multiple channels, the single device comprising, a resampling polyphase filter for performing tasks of simultaneous spectral translation of multiple contiguous spectral regions to baseband, the steps including: a.) separating the signals residing in the multiple contiguous spectral regions for bandwidth reduction of each of a varied bandwidth signal component, b.) performing interpolation to change sample rates of each of a multiple output series by a rational ratio matched to the bandwidth of each signal component, and a single polyphase filter coupled to operate in a resampling mode such that sample rate inputs and sample rate outputs are different" as disclosed in claim 9.

Nor does the prior art teach or suggest alone or in combination a receiver for receiving and separating a composite 3-G wireless communications signal into constituent baseband components "wherein said receiver combines multiple processing tasks of a 3-G receiver into a single device, said device performs the processing required for multiple channels, the single device comprising, a filter for;

a.) changing a sample rate to induce spectral aliasing of multiple spectral regions, and

b.) operating in a resampling mode for intentional aliasing of each of several spectral regions and outputting simultaneous separate data streams from varied bandwidth spectral regions at varied output sample rates” as disclosed in claim 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

CONCLUSION

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Ghayour Mohammad can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

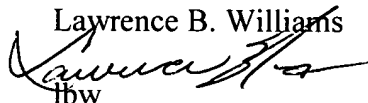
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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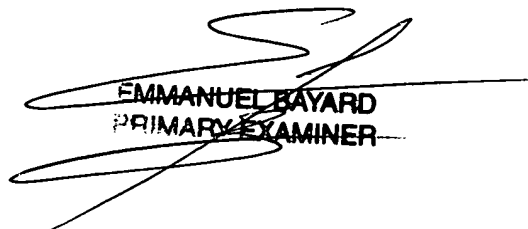
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Lawrence B. Williams



lbw

September 11, 2006



EMMANUEL BAYARD
PRIMARY EXAMINER